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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Summers et al.

Application No. 10/671,749

Filed: September 26, 2003

Confirmation No. 9326

For: COMPUTER-AIDED CLASSIFICATION
OF ANOMALIES IN ANATOMICAL
STRUCTURES

Examiner: Unknown

Art Unit: 3736

Attorney Reference No. 4239-66895-01

CERTIFICATE OF MAILING

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Attorney
for Applicant(s)

G. L. Maurer

Date Mailed January 14, 2005

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)(3)

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Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. The relevance of the Japanese patent, if any, as understood by Applicants is described in the accompanying English language abstract. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and

Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163).

Applicants will provide copies of such patents or applications upon request.

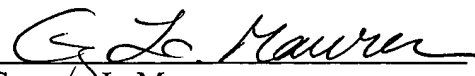
Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS.

However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

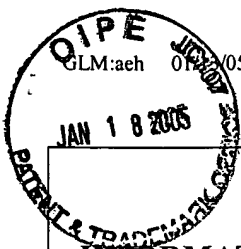
Respectfully submitted,

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**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Attorney Docket Number	4239-66895-01
Application Number	10/671,749
Filing Date	September 26, 2003
First Named Inventor	Summers
Art Unit	3736
Examiner Name	Unknown

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Name
		4,569,014	February 4, 1986	Kishi et al.
		4,710,876	December 1, 1987	Cline et al.
		4,719,585	January 12, 1988	Cline et al.
		4,729,098	March 1, 1988	Cline et al.
		4,745,562	May 17, 1988	Prazdny
		4,751,643	June 14, 1988	Lorensen et al.
		4,791,567	December 13, 1988	Cline et al.
		4,821,210	April 11, 1989	Rumbaugh
		4,821,213	April 11, 1989	Cline et al.
		4,831,528	May 16, 1989	Crawford et al.
		4,868,748	September 19, 1989	Crawford et al.
		4,879,668	November 7, 1989	Cline et al.
		4,882,679	November 21, 1989	Tuy et al.
		4,896,278	January 23, 1990	Grove
		4,903,202	February 20, 1990	Crawford
		4,905,148	February 27, 1990	Crawford
		4,914,589	April 3, 1990	Crawford
		4,953,087	August 28, 1990	Crawford
		4,984,157	January 8, 1991	Cline et al.
		4,985,834	January 15, 1991	Cline et al.

**EXAMINER
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		4,985,856	January 15, 1991		Kaufman
		4,987,554	January 22, 1991		Kaufman
		4,989,142	January 29, 1991		Crawford
		4,999,789	March 12, 1991		Fiasconaro
		5,016,173	May 14, 1991		Kenet et al.
		5,038,302	August 3, 1991		Kaufman
		5,068,788	November 26, 1991		Goodenough et al.
		5,095,521	March 10, 1992		Trousset et al.
		5,101,475	March 31, 1992		Kaufman
		5,113,357	May 12, 1992		Johnson et al.
		5,133,020	July 21, 1992		Giger et al.
		5,150,427	September 22, 1992		Frazee et al.
		5,166,876	November 24, 1992		Cline et al.
		5,170,347	December 8, 1992		Tuy et al.
		5,179,441	January 12, 1993		Anderson et al.
		5,187,658	February 16, 1993		Cline et al.
		5,257,203	October 26, 1993		Riley et al.
		5,268,967	December 7, 1993		Jang et al.
		5,273,040	December 28, 1993		Apicella et al.
		5,277,182	January 11, 1994		Koizumi et al.
		5,289,374	February 22, 1994		Doi et al.
		5,291,402	March 1, 1994		Pfoh

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		5,297,550	March 29, 1994	Margosian	
		5,309,356	May 3, 1994	Nishide et al.	
		5,319,551	June 7, 1994	Sekiguchi et al.	
		5,345,490	September 6, 1994	Finnigan et al.	
		5,361,763	November 8, 1994	Kao et al.	
		5,381,518	January 10, 1995	Drebin et al.	
		5,412,763	May 2, 1995	Knoplioch et al.	
		5,425,368	June 20, 1995	Brandt	
		5,442,733	August 15, 1995	Kaufman et al.	
		5,452,367	September 19, 1995	Bick et al.	
		5,458,111	October 17, 1995	Coin	
		5,465,323	November 7, 1995	Mallet	
		5,489,782	February 6, 1996	Wernikoff	
		5,499,322	March 12, 1996	Thirion et al.	
		5,506,785	April 9, 1996	Blank et al.	
		5,517,602	May 14, 1996	Natarajan	
		5,531,227	July 12, 1996	Schneider	
		5,537,485	July 16, 1996	Nishikawa et al.	
		5,550,376	August 27, 1996	Gupta et al.	
		5,553,207	September 3, 1996	Sekiguchi et al.	
		5,555,352	September 10, 1996	Lucas	
		5,559,847	September 24, 1996	Hu et al.	

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		5,574,763	November 12, 1996	Dehner	
		5,582,173	December 10, 1996	Li	
		5,604,778	February 18, 1997	Polacin et al.	
		5,611,000	March 11, 1997	Szeliski et al.	
		5,611,025	March 11, 1997	Lorensen et al.	
		5,623,586	April 22, 1997	Hohne	
		5,627,907	May 6, 1997	Gur et al.	
		5,630,034	May 13, 1997	Oikawa et al.	
		5,636,338	June 3, 1997	Moreton	
		5,699,799	December 23, 1997	Xu et al.	
		5,719,954	February 17, 1998	Onda	
		5,782,762	July 21, 1998	Vining	
		5,920,319	July 6, 1999	Vining et al.	
		5,936,628	August 10, 1999	Kitamura et al.	
		5,971,767	October 26, 1999	Kaufman et al.	
		6,078,680	June 20, 2000	Yoshida et al.	
		6,246,784 B1	June 12, 2001	Summers et al.	
		6,272,366 B1	August 7, 2001	Vining	
		6,331,116 B1	December 18, 2001	Kaufman et al.	
		6,343,936 B1	February 5, 2002	Kaufman et al.	
		6,345,112 B1	February 5, 2002	Summers et al.	

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FOREIGN PATENT DOCUMENTS				
Examiner's Initials*	Cite No. (optional)	Number	Date	Country
		JP07332970 (and English Abstract)	December 22, 1995	Japan
		WO96/13207	May 9, 1996	WIPO
		WO98/11524	March 19, 1998	WIPO
		WO98/37517	August 27, 1998	WIPO
Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS		
		"Stereo Matching with Transparency and Matting," <i>CVPR '97</i> , pp. 1-8, submitted June 17-19, 1997.		
		"E-Z-EM Debuts Virtual Colonoscopy Tagging Agent," http://www.auntminnie.com/print/print.asp?sec=rca&sub=rsna_2001&pag=dis&ItemId=52233 , November 26, 2001.		
		Arimura et al., "Performance Evaluation of an Advanced Method for Automated Identification of View Positions of Chest Radiographs by Use of a Large Database," <i>Proceedings of SPIE</i> , Vol. 4684, pp. 308-315, Paper #4684-32, February 2002. (Abstract Only)		
		Ashton et al., "A Novel Volumetric Feature Extraction Technique, with Applications to MR Images," <i>IEEE</i> , pp. 564-567, September 1995.		
		Barnes, "New CAD Technique Improves CT Colonography," http://www.auntminnie.com/print/print.asp?sec=sup&sub=cto&pag=dis&ItemId=52410&print , December 21, 2001.		
		Barnes, "CT Colonography Performs Very Well in Five-Year Study," http://www.auntminnie.com/print/print.asp?sec=sup&sub=cto&pag=dis&ItemId=52240&print , November 26, 2001.		
		Besl et al., "Segmentation Through Variable-Order Surface Fitting," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 10, No. 2, pp. 167-192, March 1988.		
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		Besl, <i>Surfaces in Range Image Understanding</i> , Springer-Verlag New York Inc., pp. 63-115 and 157-160, 1988.	
		Cai et al., "Displaying of Details in Subvoxel Accuracy," <i>Journal of Computer Science and Technology</i> , Vol. 11, No. 5, pp. 480-488, September 1996. (Abstract only)	
		Chen et al., "A Novel Approach to Extract Colon Lumen from CT Images for Virtual Colonoscopy," <i>IEEE Transactions on Medical Imaging</i> , Vol. 19, No. 12, December 2000.	
		Chiou et al., "Interactive Path Planning for Virtual Endoscopy," <i>Conf Record IEEE NSS-MIC</i> , November 1998.	
		Chiou et al., "Volume Segmentation and Rendering of Mixtures of Materials for Virtual Colonoscopy," <i>SPIE Medical Imaging '99</i> , Vol. 3660, pp. 133-138, February 1999.	
		Chiou et al., "Unified Analysis, Modeling, Matching and Synthesis for CT Color Texture Mapping from the Visible Human Dataset," <i>The Second Visible Human Conf.</i> , Bethesda, MD, October 1998.	
		Cline et al., "Three-Dimensional Segmentation of MR Images of the Head Using Probability and Connectivity," <i>Journal of Computer Assisted Tomography</i> , Vol. 14, No. 6, pp. 1037-1045, November-December 1990.	
		Davatzikos et al., "Using a Deformable Surface Model to Obtain a Shape Representation of the Cortex," <i>IEEE Transactions on Medical Imaging</i> , Vol. 15, No. 6, pp. 785-795, December 1996.	
		Dill, "An Application of Color Graphics to the Display of Surface Curvature," <i>Computer Graphics</i> , Vol. 15, No. 3, pp. 153-161, August 1981.	
		Fielding et al., "Tumor Detection by Virtual Cystoscopy with Color Mapping of Bladder Wall Thickness," <i>The Journal of Urology</i> , Vol. 167, pp. 559-562, February 2002.	
		Fielding et al., "CT Cystoscopy: Comparison of Axial Source Images with Color Wall Mapping for Identification of Bladder Tumors," <i>Radiology</i> , Vol. 221(P), Presentation 1228, 2001. (Abstract Only)	
		Guo et al., "A New Method for Computer Recognition of Small Rounded Pneumoconiosis Opacities in Chest X-Rays," Eighth International Conference on Pattern Recognition, <i>IEEE Computer Society Press</i> , pp. 475-477, 1986.	
		He et al., "Fast Stereo Volume Rendering," <i>IEEE</i> , pp. 49-56 and 466, 1996.	

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		Hong et al., "3D Reconstruction and Visualization of the Inner Surface of the Colon from Spiral CT Data," <i>IEEE</i> , pp. 1506-1510, 1997.	
		Ichimura, "Volume Data Coding Based on Region Segmentation Using Finite Mixture Model," <i>Proceedings of 3rd IEEE International Conference on Image Processing</i> , September 16-19, 1996.	
		Kawaguchi et al., "Virtual Cystoscopy of Urinary Bladder Using Multirow Detector CT: Assessment of Clinical Utility," <i>Radiology</i> , Vol. 221(P), Presentation 1229, 2001. (Abstract Only)	
		Kawata et al., "An Approach for Detecting Blood Vessel Diseases from Cone-Beam CT Image," <i>In Proc. of ICIP-95</i> , Vol. 2, pp. 500-503, October 23-26, 1995.	
		Kawata et al., "Feature Extraction of Convex Surfaces on Blood Vessels Using Cone-Beam CT Images," <i>International Conference on Image Processing, IEEE</i> , Vol. 3, pp. 315-318, September 1996.	
		Kawata et al., "Measurement of Blood Vessel Characteristics for Disease Detection Based on Cone-Beam CT Images," <i>IEEE Transactions on Nuclear Science</i> , Vol. 43, No. 6, pp. 3348-3354, Part 2, December 1996. (Abstract only)	
		Lacrosse et al., "3D Spiral CT of the Tracheobronchial Tree," <i>Journal of Computer Assisted Tomography</i> , Vol. 19, No. 3, pp. 341-347, May-June 1995.	
		Lee et al., "Automated Detection of Pulmonary Nodules in Helical CT Images Based on an Improved Template-Matching Technique," <i>IEEE Transactions on Medical Imaging</i> , Vol. 20, No. 7, pp. 595-604, July 2001.	
		Liang et al., "Inclusion of a <i>Priori</i> Information in Segmentation of Colon Lumen for 3D Virtual Colonoscopy," <i>IEEE Nuclear Science Symposium Conference Record</i> , Vol. 2, pp. 1423-1427, 1997.	
		Liang, "Virtual Colonoscopy: An Alternative Approach to Examination of the Entire Colon," http://www.viatronix.net/white_paper_pdfs/LIT1012.pdf , visited August 1, 2002.	
		Lorensen et al., "The Exploration of Cross-Sectional Data with a Virtual Endoscope," <i>Interactive Technology and the New Health Paradigm</i> , IOS Press, pp. 221-230, January 1995.	
		Lorensen, et al., "Marching Cubes: A High Resolution 3D Surface Construction Algorithm," <i>Computer Graphics</i> , Vol. 21, No. 4, pp. 163-169, 1987.	
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		Mergo et al., "Three-dimensional CT of the Tracheobronchial Tree: Correlative Study with Bronchoscopy in 30 Cases," <i>Scientific Sessions</i> , p. 261. (Abstract only)		
		Monga et al., "Using Partial Derivatives of 3D Images to Extract Typical Surface Features," <i>Computer Vision and Image Understanding</i> , Vol. 61, No. 2, pp. 171-189, March 1995.		
		Näppi et al., "Automated Detection of Polyps with CT Colonography: Evaluation of Volumetric Features for Reduction of False-Positive Findings," <i>Academic Radiology</i> , Vol. 9, No. 4, pp. 386-397, April 2002.		
		Rogers et al., <i>Mathematical Elements for Computer Graphics</i> , McGraw-Hill Publishing Co., New York, 2 nd Ed., pp. 420-421, 1990.		
		Röll et al., "Fast Generation of Leakproof Surfaces from Well-Defined Objects by a Modified Marching Cubes Algorithm," <i>Computer Graphics Forum</i> , Vol. 14, No. 2, pp. 127-138, 1995.		
		Sandor et al., "Segmentation of Brain CT Images Using the Concept of Region Growing," <i>Int J. Biomed. Comput.</i> , Vol. 29, pp. 133-140, 142, 146-147, 1991.		
		Scharstein et al., "Stereo Matching with Non-Linear Diffusion," <i>Proceedings of the 1996 IEEE Computer Society Conference on Computer Vision and Pattern Recognition</i> , pp. 343-350, June 18-20, 1996.		
		Scharstein, "Stereo Vision for View Synthesis," <i>Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, 1996</i> , pp. 852-858, June 18-20, 1996.		
		Schreyer et al., "Virtual CT Cystoscopy: Color Mapping of Bladder Wall Thickness," <i>Investigative Radiology</i> , Vol. 35, No. 5, pp. 331-334, 2000.		
		Sekiguchi et al., "Interactive 3-Dimensional Segmentation Method Based on Region Growing Method," <i>Systems and Computers in Japan</i> , Vol. 25, No. 1, pp. 88-97, 1994.		
		Sonka et al., "Rule-Based Detection of Intrathoracic Airway Trees," <i>IEEE Transactions on Medical Imaging</i> , Vol. 15, No. 3, pp. 314-326, June 1996.		
		Stringham et al., "Probabilistic Segmentation Using Edge Detection and Region Growing," <i>Visualization in Biomedical Computing</i> , SPIE Vol. 1808, pp. 40-51, 1992.		

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		Summers et al., "CT Virtual Bronchoscopy of Simulated Endobronchial Lesions: Effect of Scanning, Reconstruction, and Display Settings and Potential Pitfalls," <i>AJR</i> , Vol. 170, pp.947-950, April 1998.	
		Summers, "Image Gallery: A Tool for Rapid Endobronchial Lesion Detection and Display Using Virtual Bronchoscopy," <i>Journal of Digital Imaging</i> , Vol. 11, No. 3, Supplement 1, pp. 53-55, August 1998.	
		Summers et al., "Automatic Detection of Endobronchial Lesions with Virtual Bronchoscopy: Comparison of Two Methods," <i>Proceedings of SPIE Reprint: Reprinted from Medical Imaging 1998: Image Processing</i> , Vol. 3338, pp.327-335, February 23-26, 1998.	
		Summers et al., "Automated Polyp Detector for CT Colonography: Feasibility Study," <i>Radiology</i> , 216:284-290, 2000.	
		Summers, "Navigational Aids for Real-Time Virtual Bronchoscopy," <i>AJR</i> , Vol. 168, pp. 1165-1170, May 1997.	
		Summers et al., "Polypoid Lesions of Airways: Early Experience with Computer-assisted Detection by Using Virtual Bronchoscopy and Surface Curvature," <i>Radiology</i> , Vol. 208, No. 2, pp. 331-337, August 1998.	
		Summers et al., "Virtual Bronchoscopy: Segmentation Method for Real-Time Display," <i>Radiology</i> , Vol. 200, No. 3, pp. 857-862, September, 1996.	
		Summers et al., "Computer-Assisted Detection of Endobronchial Lesions Using Virtual Bronchoscopy: Application of Concepts From Differential Geometry," May 27, 1997. (Abstract only)	
		Taubin, "A Signal Processing Approach to Fair Surface Design," <i>Computer Graphics Proceedings, SIGGRAPH 95</i> , pp. 351-358, August 6-11, 1995.	
		Thirion et al., "Computing the Differential Characteristics of Isointensity Surfaces," <i>Computer Vision and Image Understanding</i> , Vol. 61, No. 2, pp. 190-202, March 1995.	
		Udupa, "Interactive Segmentation and Boundary Surface Formation for 3-D Digital Images," <i>Computer Graphics and Image Processing</i> , Vol. 18, pp. 213-235, 1982.	
		Van Gelder et al., "Direct Volume Rendering with Shading via Three-Dimensional Textures," <i>Proceedings 1996 Symposium on Volume Visualization</i> , pp. 23-30, 1996.	

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		Vining et al., "Virtual Bronchoscopy: Relationships of Virtual Reality Endobronchial Simulations to Actual Bronchoscopic Findings," <i>Chest</i> , Vol. 109, No. 2, pp. 549-553, February 1996.		
		Vining et al., "Virtual Colonoscopy," <i>Radiology</i> , 193(P):446, 1994.		
		Vining et al., "Virtual Bronchoscopy," <i>Radiology</i> , 193(P):261, 1994.		
		Vos et al., "A New Visualization Method for Virtual Colonoscopy," <i>Medical Image Computing and Computer-Assisted Intervention - MICCAI 2001</i> (W.J. Niessen and A. Viergever, eds.), Springer-Verlag, pp. 645-654, October 2001.		
		Vos et al., "A Review of Technical Advances in Virtual Colonoscopy," <i>MEDINFO 2001, Proc. 10th World Congress on Medical Informatics</i> (London, Sept. 2-5, 2001), V. Patel et al. (Eds.), Amsterdam: IOS Press, Vol. 2, pp. 938-942, 2001.		
		Wax et al., "Electronic Colon Cleansing for Virtual Colonoscopy," Department of Radiology and Computer Science, State University of New York at Stony Brook, <i>1st Intl. Conference on Virtual Colonoscopy</i> , Boston, MA, 1998.		
		Wiesner, et al., "Normal Colonic Wall Thickness at CT and Its Relation to Colonic Distension," <i>Radiology</i> , Vol. 221(P), Presentation 1088, 2001. (Abstract Only)		
		Wood et al., "Measurement of Three-Dimensional Lung Tree Structures by Using Computed Tomography," <i>American Physiological Society</i> , pp. 1687-1697, 1995.		
		Wood et al., "A Method for Measurement of Cross Sectional Area, Segment Length, and Branching Angle of Airway Tree Structures in Situ," <i>Computerized Medical Imaging and Graphics</i> , Vol. 19, No. 1, pp. 145-150, 151-152, 1995.		
		Zhou et al., "Three-Dimensional Skeleton and Centerline Generation Based on an Approximate Minimum Distance Field," <i>The Visual Computer</i> , Vol. 14, pp. 303-314, 1998.		

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COMMISSIONER FOR PATENTS
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CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney
for Applicant(s)

Date Mailed January 14, 2005

TRANSMITTAL LETTER

Enclosed for filing in the application referenced above are the following:

- ☒ Information Disclosure Statement
☒ Form 1449 and references cited thereon

- ☒ The Director is hereby authorized to charge any additional fees that may be required, or credit over-payment, to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

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cc: Docketing